
Editorial

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Biographical notes: Aura Conci holds Engineering with MSc and PhD in Structures, and a Professor at Universidade Federal Fluminense (UFF). She works presently in the areas of computer modelling, computer vision, image analysis and bioinformatics. She oriented hundred students and is member of the: ISGG, ABCM, ISPRS, SBrT and SBC. She acts in the editorial office of a number of international journals and has cooperated on research with many scholars in various countries. She has a number of high quality publications (more than 4 k citations, h index = 32 and i10 = 108). She has funding from Brazilian and EU governments for coordinate over 30 research projects.

Geraldo Braz Junior graduated in Computer Science in 2005, Master's in Electrical Engineering with emphasis on Computer Science in 2007 and Doctorate in Electrical Engineering with emphasis on Computer Science in 2014, held at the Federal University of Maranhão. He is currently an Associate Professor I at the Federal University of Maranhão, permanent of the post-graduate programmes of the Master's in Computer Science (PPGCC/UFMA) and Doctorate in Computer Science – UFMA-UFPI, CNPq Research Productivity Scholarship – Level 2 since 2019. He has experience in computer science, and working mainly on the following topics: computer vision, machine learning, deep learning and medical image processing.

João Dallyson Sousa de Almeida received his degree in Computer Science from the Federal University of Maranhão (UFMA) in 2007, Master's in Electrical Engineering from UFMA in 2010, and PhD in Electrical Engineering from UFMA in 2013. He is currently an Associate Professor at the UFMA. He coordinates the Vision and Image Processing Laboratory (VipLab-UFMA). He has experience in computer science, and working mainly on the following topics: image processing, machine learning, ophthalmic medical images and time series.

Leandro Augusto Frata Fernandes holds a BSc in Computer Science in 2002 from the Fundação Universidade Regional de Blumenau (FURB), MSc in 2006 and PhD in 2010 in Computer Science from Universidade Federal do Rio Grande do Sul (UFRGS). He was a post-doctoral researcher at the UFRGS from 2010 to 2011. Currently, he is a faculty member at the Universidade Federal Fluminense (UFF) in Niterói, Brazil. His research interests cover most aspects of visual computing and artificial intelligence, especially computer vision and the frontiers among information retrieval, extraction and organisation, and machine learning applied to vision.

Images have a huge amount of uses in computer systems worldwide, and about 40 years ago, their analysis was performed manually by human eyes. Recent advances in intelligent computer systems for managing large datasets have replaced methods usable for digital data. In the last decade, even more and unquestionable evidence can be done comparing both special issues of *IJICA* on IWSSIP¹ (<https://www.iwssip.org/>) 2011 and 2022 (here presented to you).

Rapid developments in system applications for image processing are the central theme of this special issue on new technical advances on intelligent systems. Among the 71 papers published in the conference proceedings, seven were invited to renew the original article in at least 80% of the material presented at the conference, and a new one answered the special issue call.² After a new revision round, eight papers were finally accepted for this special issue. The authors are from five countries (China, Brazil, Portugal, Peru and the USA). The contents of this special

issue will provide for readers of the *International Journal of Innovative Computing and Applications* (Inderscience Publishers) a wide range of topics and cutting-edge information.

We would like to thank Professor Dr. Nadia Nedjah (Editor-in-Chief), Zhihua Cui, Luiza de Macedo Mourelle, Fatos Xhafa (associate editors) and all members of the *IJICA* editorial board for providing us the opportunity to prepare this special issue. We also thank all the authors and the reviewers for their hard work. We hope this issue will stimulate interest and further research into this promising field of digital systems.

Notes

- 1 International Conference on Systems Signals and Image Processing.
- 2 <http://iwssip2020.ic.uff.br/>.